





ORDER NO. **ARP2019**

FM/AM DIGITAL SYNTHESIZER TUNER

MODEL F-757 HAS FOLLOWING VERSIONS:

| Туре | Power requirement | Export destination | |
|-------|-----------------------------|------------------------|--|
| HEWZI | AC220V, 240V (switchable)* | West Germany and Italy | |
| HE | AC220V, 240V (switchable)* | European continent | |
| НВ | AC220V, 240V (switchable) * | United Kingdom | |

^{*} Change the primary wiring of the power transformer.

- This manual is applicable to the F-757/HEWZI, HE and HB types.
- As to the HE and HB types, refer to page 33.
- Ce manuel pour le service comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

CONTENTS

| 1. | PANEL FACILITIES | 2 | 6. ADJUSTMENTS | .21 |
|----|--------------------------------|----|------------------------|-----|
| 2. | EXPLODED VIEWS, PAKING AND | | RÉGLAGE | .24 |
| | PARTS LIST | 4 | AJUSTE | .27 |
| 3. | SCHEMATIC DIAGRAM | 7 | 7. IC INFORMATION | .30 |
| 4. | P.C. BOARDS CONNECTION DIAGRAM | 11 | 8. FOR HE AND HB TYPES | .33 |
| 5. | P.C.B'S PARTS LIST | 17 | 9. SPECIFICATIONS | .34 |
| | | | | |

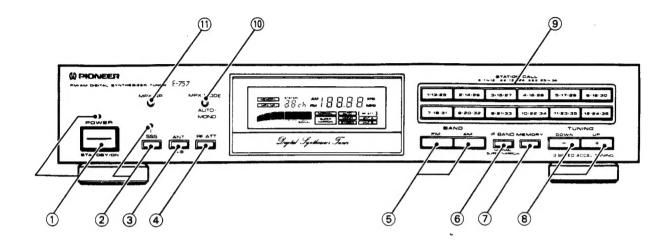
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1. PANEL FACILITIES



1) POWER (STANDBY/ON) switch/indicator

When the power is on, indicator lights.

ON...... When set to ON position, power is supplied and the unit becomes operational

STANDBY When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

NOTE:

- The memory will be backed up so long as the power cord is not
- If the power cord is unplugged, the memory will be retained for several davs.

(2) SSS button/indicator

When SSS is on, indicator lights. If turned on during reception of AM or when MPX MODE is set to MONO during FM, this will produce a simulated stereo effect which provides rich ambience.

SSS: Spectrum Simulated Stereo.

NOTE:

This button's status is preset for each station in station memory.

3 ANT A/B button

Selects between two antennas connected to the FM antenna A and B terminals. ANT A or ANT B indicator lights up.

This button's status is preset for each station in station memory.

(4) RF ATT button

Set this switch to ON when receiving strong FM signals (nearby stations) to reduce sound distortion ([RF ATT] indicator lights). Normally, this switch should be set to OFF.

This button's status is preset for each station in station memory.

(5) BAND selector buttons

FM:

Press to receive FM broadcasts.

AM:

Press to receive AM broadcasts.

(6) IF BAND button

Each time this button is pressed the bandwidth of the IF circuit switches between "normal" and "super narrow" for the FM band and the AM

The selected bandwidth is displayed as follows:

The NORMAL or SUPER NARROW indicator lights up.

Set to SUPER NARROW in case of interference from other stations.

The setting of this button is memorized together with the station in the station memory.

7 MEMORY button

Press to memorize preset stations. The MEMORY indicator will remain lit for several seconds. Press the desired STATION CALL buttons to memorize it during this period.

(8) TUNING UP/DOWN buttons

Use these buttons to tune in broadcasting stations. Press UP (+) to receive a station whose frequency is higher than the displayed frequency, and DOWN (-) to tune into a lower frequency station.

STATION CALL buttons

Use these buttons to preset stations and to receive already preset stations.

(10) MPX (multiplex) MODE button

Mode changes as follows each time this button is pressed:

| $\overline{}$ | AUTO | | MONO | |
|---------------|------|-------------|------|--|
| | | | | |

This button does not affect AM reception.

ALITO

Depending on the broadcast station, STEREO or MONO is automatically selected.

AUTO indicator lights up.

NOTE:

When the signal level is too weak for reception, sound output is automatically muted.

MONO:

To receive stereo broadcasts in monaural.

MONO indicator lights up.

NOTE:

The setting of this button is memorized together with the station in the station memory.

(1) MPX NR button

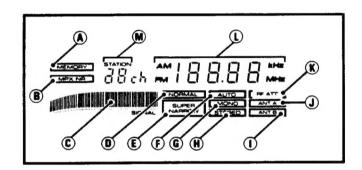
When MPX NR is on, indicator lights up.

During reception of stereo broadcasts where the signal is weak, set this to ON if noise is a problem. Noise will be suppressed and sound quality will become clearer.

NOTE:

- This button's status is preset for each station in station memory.
- This does not operate during AM signal reception or when the MPX mode is MONO.

OPERATING DISPLAY



(A) MEMORY indicator

Lights for a several seconds when MEMORY button is pressed.

B MPX NR indicator

This indicator lights when the MPX NR is operating.

© SIGNAL indicator

NORMAL indicator

Stays lit while IF BAND button is set to NORMAL.

(E) SUPER NARROW indicator

Stays lit while IF BAND button is set to SUPER NARROW.

(F) AUTO indicator

Stays lit while MPX MODE button is set to AUTO.

6 MONO indicator

Stays lit while MPX MODE button is set to MONO.

(H) STEREO indicator

Lights up when a stereo broadcast is received. (The indicator does not light when the MPX MODE button is set to MONO.)

(I) ANT B indicator

Lights when ANT A/B button selects B.

(J) ANT A indicator

Lights when ANT A/B button selects A.

(K) RF ATT indicator

Stays lit while RF ATT button is on.

(L) Frequency indicator

Shows reception band and frequency.

(M) STATION indicator

When STATION CALL buttons are pressed, it will show the corresponding channel number.



2 3

2. EXPLODED VIEWS, PAKING AND PARTS LIST

(1) MPX (multiplex) MODE button

Mode changes as follows each time this button is pressed:

AUTO ------- MONO ----

This button does not affect AM reception.

AUTO

Depending on the broadcast station, STEREO or MONO is automatically selected.

AUTO indicator lights up.

NOTE:

When the signal level is too weak for reception, sound output is automatically muted.

MONO:

To receive stereo broadcasts in monaural.

MONO indicator lights up.

VOTE:

The setting of this button is memorized together with the station in the station memory.

11 MPX NR button

When MPX NR is on, indicator lights up.

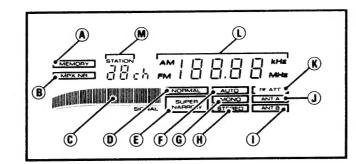
During reception of stereo broadcasts where the signal is weak, set this to ON if noise is a problem. Noise will be suppressed and sound quality will become clearer.

NOTE:

- This button's status is preset for each station in station memory.
- This does not operate during AM signal reception or when the MPX mode is MONO.

В

OPERATING DISPLAY



(A) MEMORY indicator

Lights for a several seconds when MEMORY button is pressed.

(B) MPX NR indicator

This indicator lights when the MPX NR is operating.

© SIGNAL indicator

(D) NORMAL indicator

Stays lit while IF BAND button is set to NORMAL.

E SUPER NARROW indicator

Stays lit while IF BAND button is set to SUPER NARROW.

(F) AUTO indicator

Stays lit while MPX MODE button is set to AUTO.

© MONO indicator

Stays lit while MPX MODE button is set to MONO.

(H) STEREO indicator

Lights up when a stereo broadcast is received.

(The indicator does not light when the MPX MODE button is set to MONO.)

(I) ANT B indicator

Lights when ANT A/B button selects B.

(J) ANT A indicator

Lights when ANT A/B button selects A.

(K) RF ATT indicator

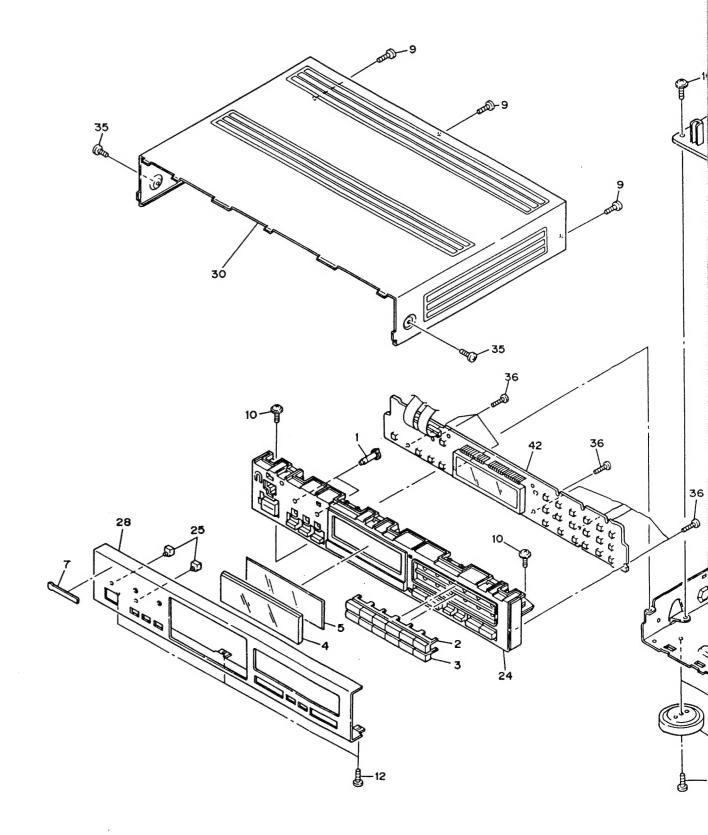
Stays lit while RF ATT button is on.

(L) Frequency indicator

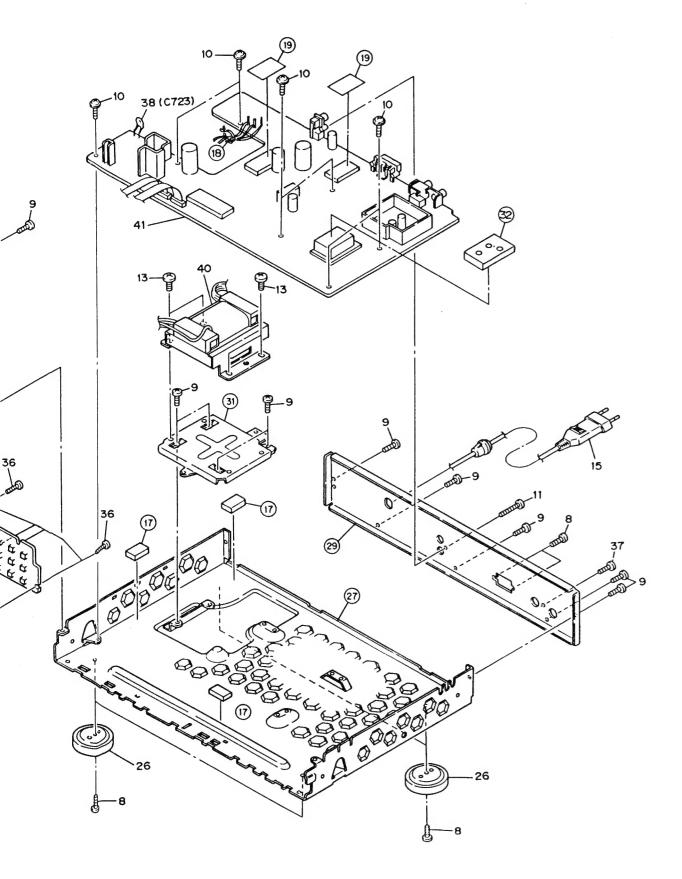
Shows reception band and frequency.

M STATION indicator

When STATION CALL buttons are pressed, it will show the corresponding channel number.



5



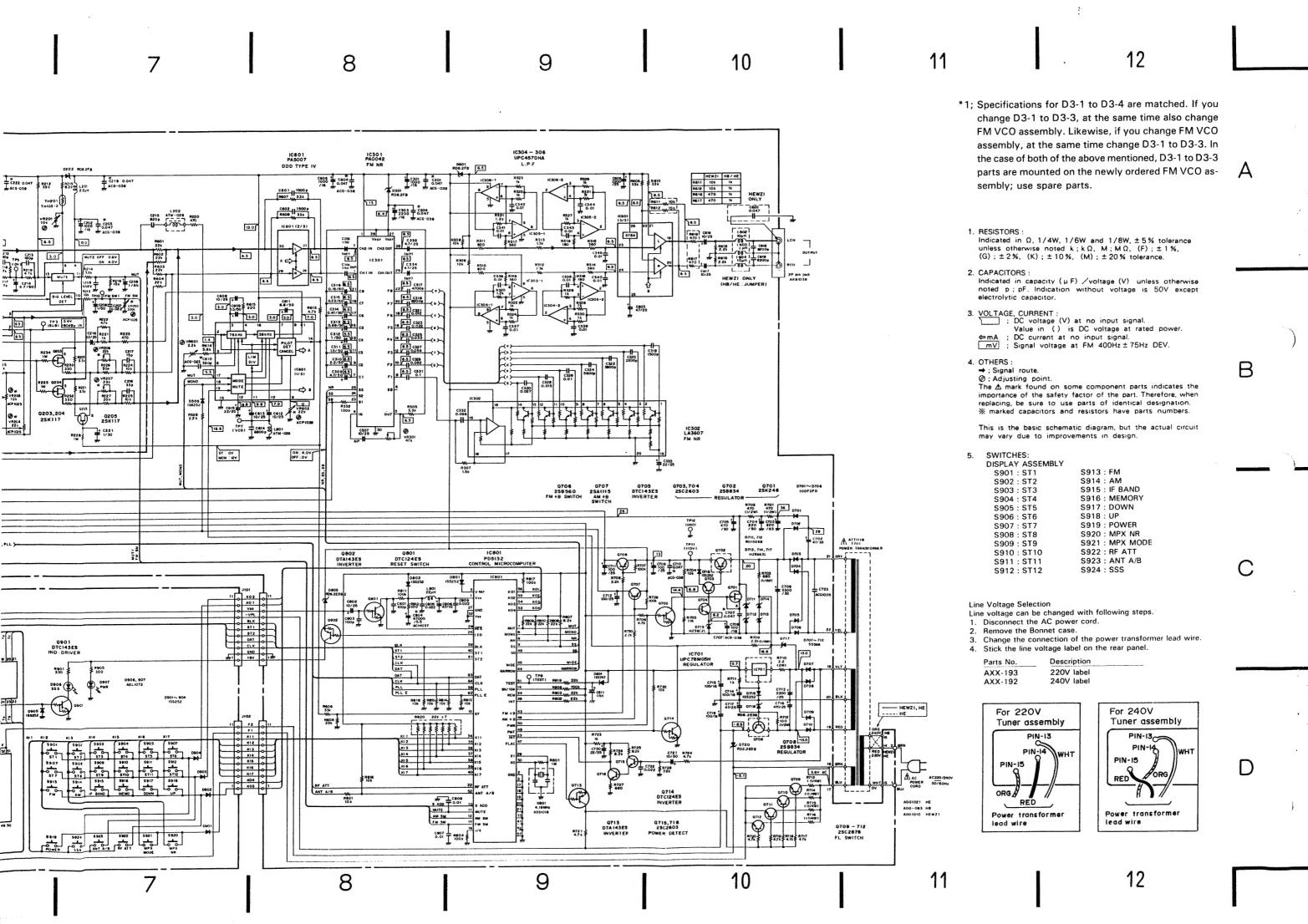
5

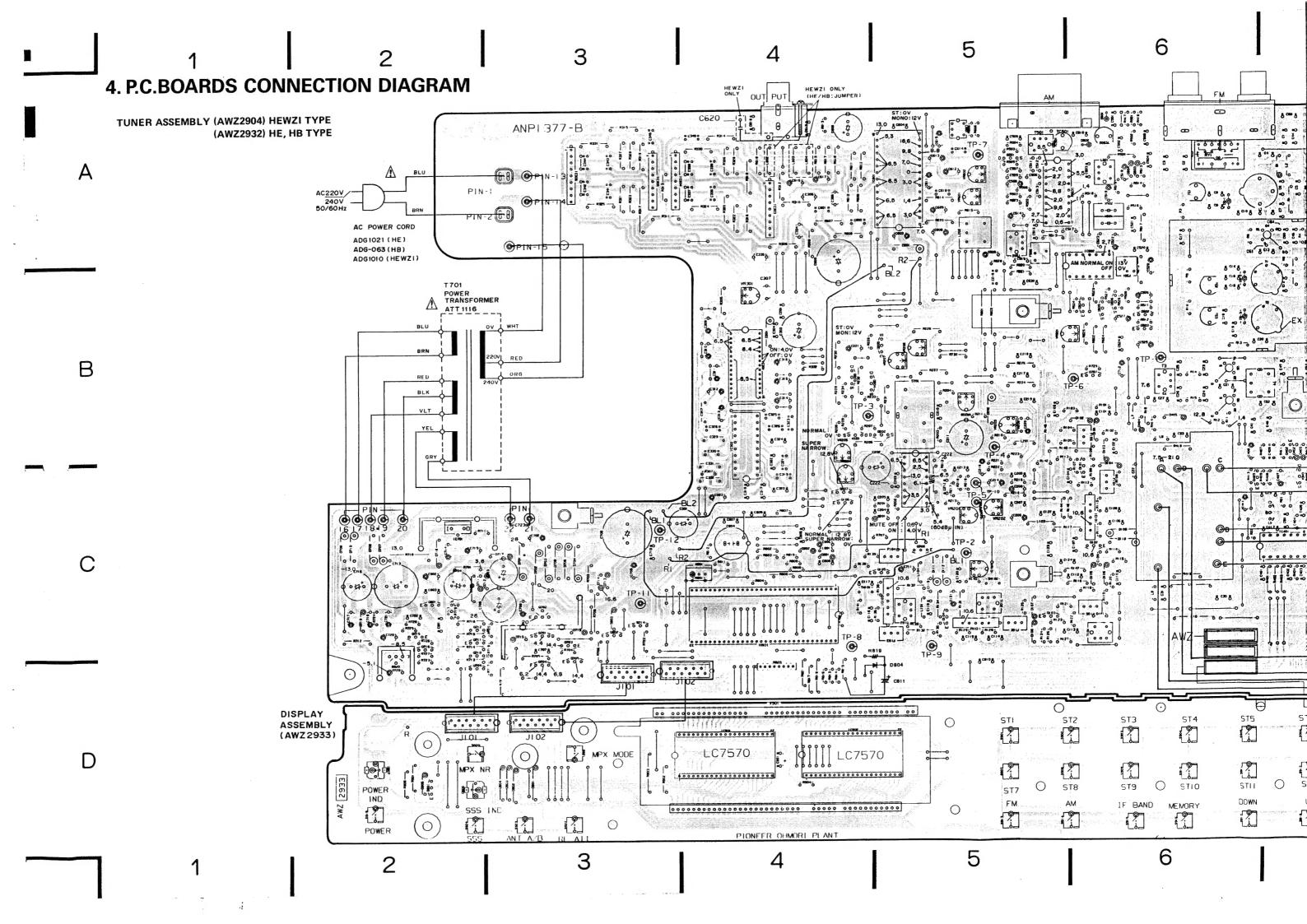
NOTES:

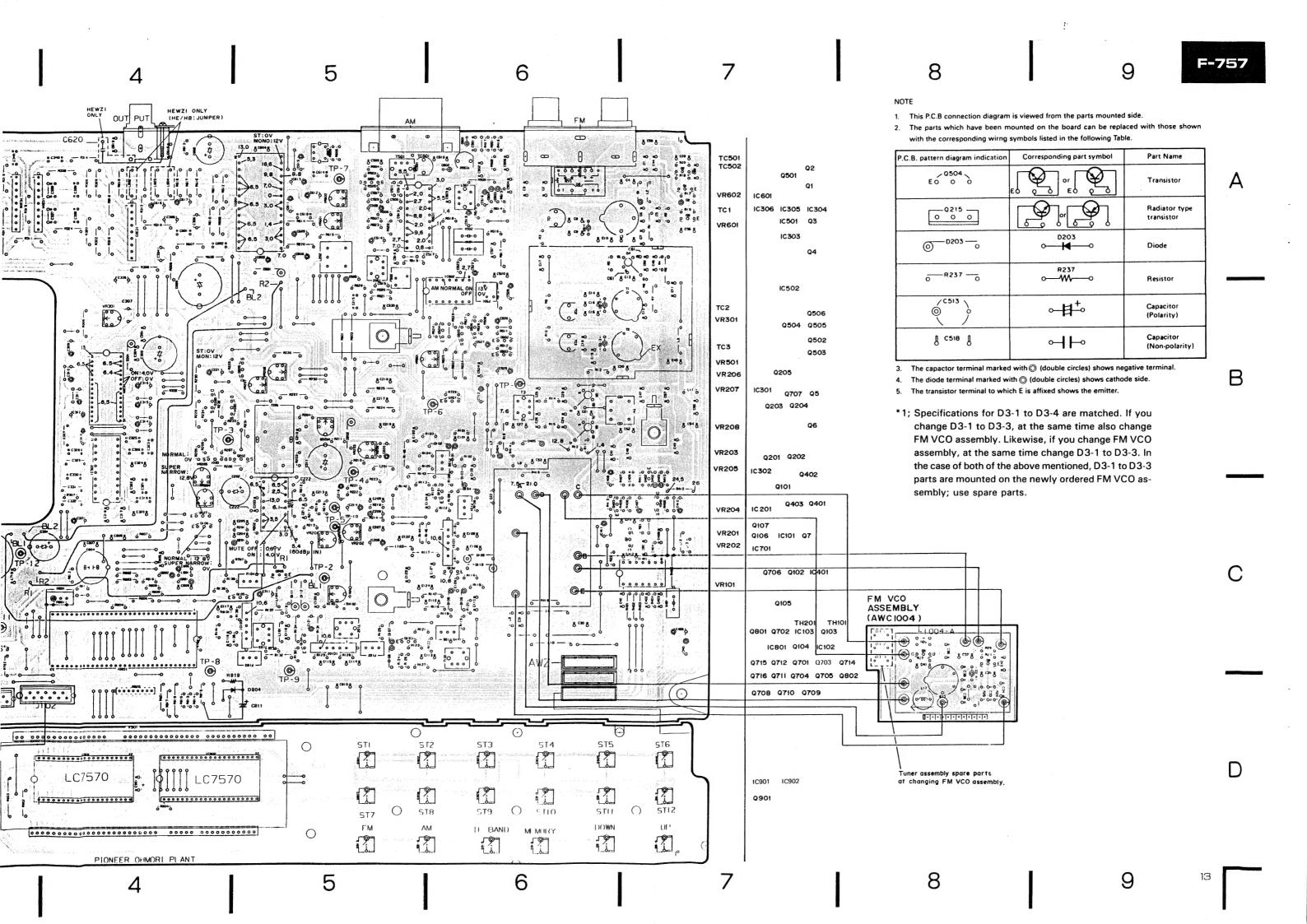
- Parts without part number cannot be supplied.
- Parts marked by "•" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of indetical designation.

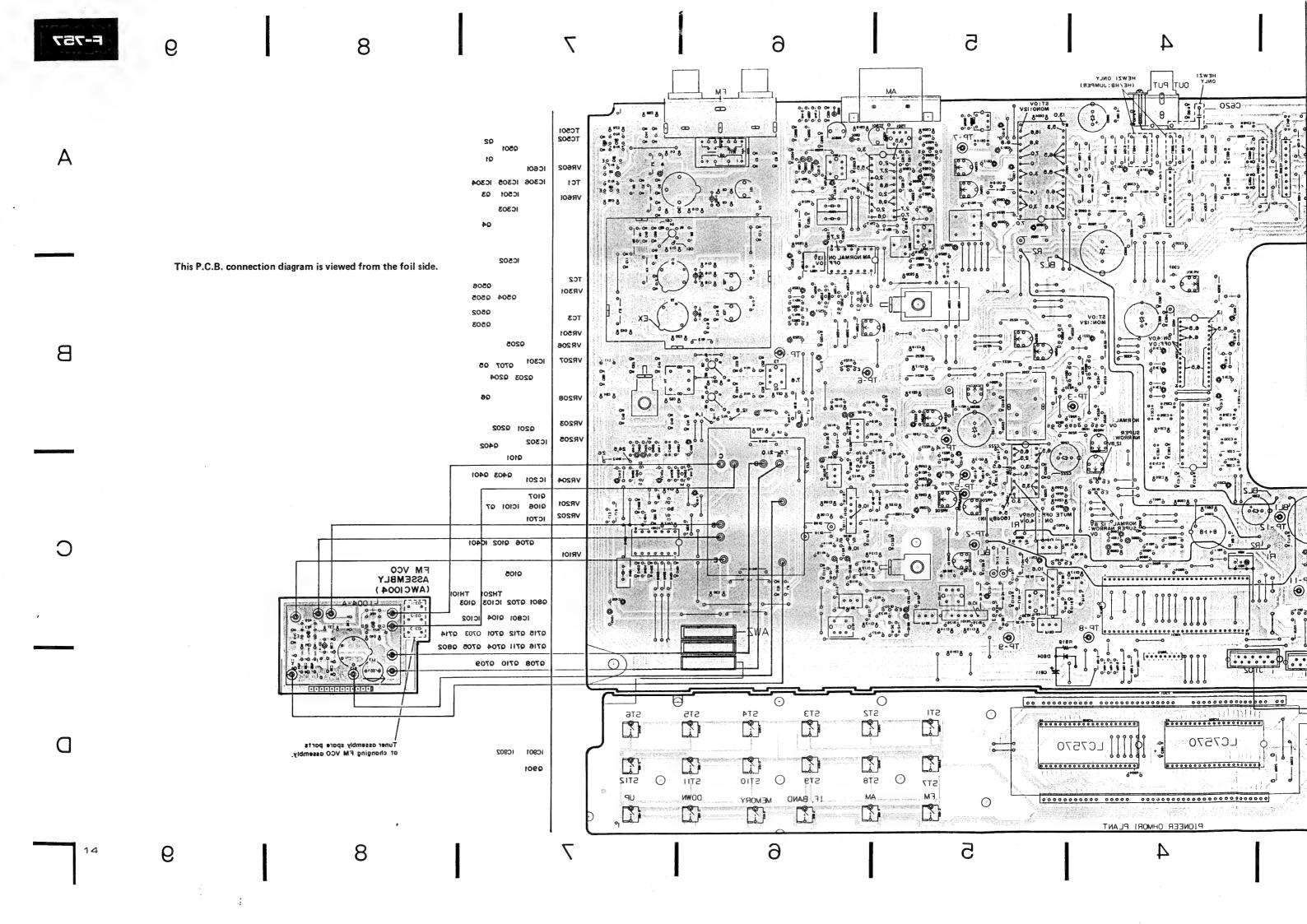
PARTS LIST OF EXTERIOR AND PACKING

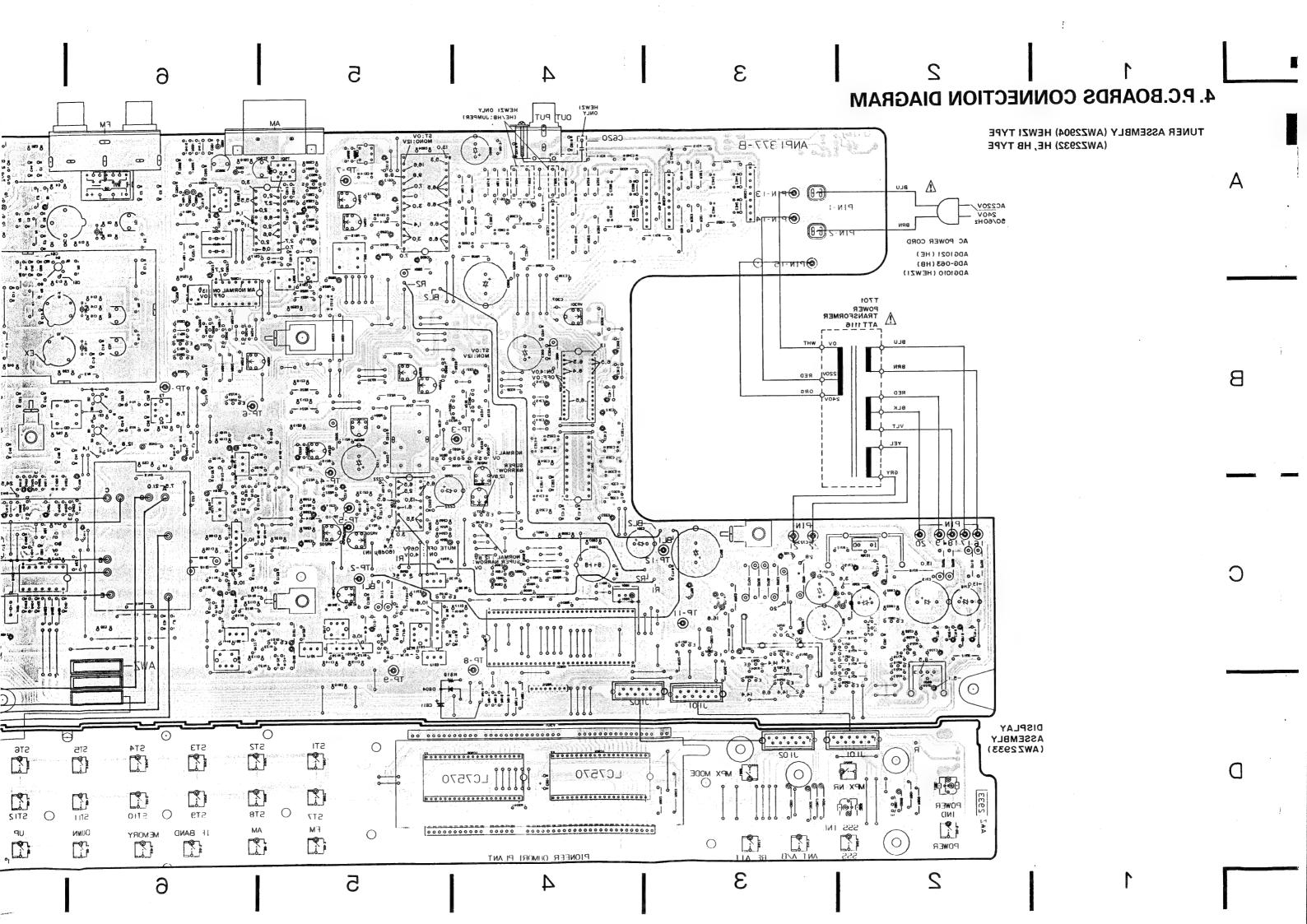
| | Mark | No. & Description | Part No. | Mark No. & Description Part No. |
|----------|------|---|---|--|
| | | 1. TACT BUTTON(PLS) 2. STATION BUTTON 3. STATION BUTTON 4. PANEL 5. FL FILTER | AAD1733 AAD1751 AAD1752 AAK1685 AAK1785 | 41. TUNER ASSEMBLY AWZ2904 42. DISPLAY ASSEMBLY AWZ2933 |
| В | | 6 7. NAME PLATE 8. SCREW 9. SCREW 10. SCREW (STEEL) | AAM1029 ABA-298 ABA1009 ABA1011 | • Packing |
| | Δ | 11. SCREW (STEEL) 12. SCREW (STEEL) 13. SCREW 4X6 14. PULG CORD 15. AC POWER CORD | ABA1047 ABA1048 ABA1074 ADE-081 ADG1010 | 16 39 14 |
| | • | 16. FM ANTENNA 17. CUSSION 18. NYLON BINDER 19. CU PLATE | ADH1002 | 33 |
| <u> </u> | | 20. PAD(F/R) 21. PACKING CASE 22. ··· 23. PACKING SHEET | AHA1095 AHD1799 AHG1017 AMB1598 | 20 |
| C | | 24. PANEL BASE 25. INDICATING LENS 26. INSULATOR ASSEMBLY 27. CHASSIS ASSEMBLY | AMR1160 AMR2140 | FRONT |
| | • | 28. FRONT PANEL 29. REAR PANEL 30. BONNET 31. TRANS. HOLDER | ANB1372 AZN1745 | 21 |
| | | 32. SHIELD PLATE 33. OPERATING INSTRUCTIONS (German, Italian) 34 35. SCREW | ARC1179 BBT30P060FZK | |
| D | Δ | 36. SCREW 37. SCREW 38. CAPACITOR(C723,0.01µ/AC150 39. LOOP ANTENNA(AM) | BPZ26P080FMC VMZ30P060FCU | |













5. P.C.B'S PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable
- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of indetical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

| Ex.1 | When the | re are 2 effective | digits (any digit apart from 0), such as 560 ohm and 4/k ohm (tolerance is | |
|------|-------------|--------------------|--|--|
| | shown by | J = 5%, and $K =$ | : 10%) | |
| | 560Ω | 56×10^{1} | 561RDI/4PS 5 6 1 J | |
| | $47k\Omega$ | 47×10^3 | 473RDI/4PS 4 7 3 J | |
| | 0.5Ω | 0R5 | $RN2H \ 0 \ R 5 \ K$ | |

| Mark | Symbol & Description | Part No. | Mark | Symbol & Description | Part No. |
|------|----------------------|-----------|------|--------------------------------------|---------------------|
| TUN | IER ASSEMBLY (A | WZ2904) | | Q706 TRANSISTOR | 2SB56O |
| | | • | | Q707 TRANSISTOR | 2SA1115 |
| SEM | ICONDUCTORS | | | Q708 TRANSISTOR | 2SB834 |
| | IC101-103 IC | TA7060AP | | Q709-712 TRANSISTOR | 2SC2878 |
| | IC201 FM IC | PA5008 | | | |
| | IC301 FM-NR | PA0042 | | Q713 TRANSISTOR | DTA143ES |
| | IC302 GEQ IC | LA3607 | | Q714 TRANSISTOR | DTC124ES |
| | IC303-306 OP-AMP IC | UPC4570HA | | Q715, 716 TRANSISTOR Q801 TRANSISTOR | 2SC26O3 DTC124ES |
| | IC401 IC | CX-7925B | | Q802 TRANSISTOR | DTA143ES |
| | IC501 AM IC | LA1247 | | | , |
| | IC502 LOGIC IC | UPD4066BC | | D1 DIODE | 1SV156 |
| | IC601 MPX IC | PA5007 | | D2 DIODE | 1SS252 |
| | IC701 REGURATOR IC | UPC78M05H | | D101-108 DIODE | 1SS85 |
| | | | | D109-112 DIODE | 2-1K25 1 |
| | IC801 TUNER CONTROL | PD5132 | | D201 DIODE | 1SS252 |
| | Q1 TRANSISTOR | 2SC2705 | | D202 ZENER DIODE | RD8.2FB |
| | Q2 TRANSISTOR | 2SC2603 | | D301 ZENER DIODE | RD8.2FB |
| | Q3 TRANSISTOR | DTA143ES | | D3-1 VARI-CAP DIODE | *1 " |
| | Q4-6 FET | 3SK122 | | D3-2 VARI-CAP DIODE | *1 |
| | Q7 N-FET | 2SK161 | | D3-3 VARI-CAP DIODE | *1 |
| | Q101-105 TRANSISTOR | 2SC2668 | | D401-404 DIODE | 1SS252 |
| | Q106, 107 TRANSISTOR | DTA143ES | | D405 ZENER DIODE | RD7.5EB |
| | Q201, 202 N-FET | 2SK246 | | D501, 502 VARI-CAP DIODE | SVC321 C2 |
| | Q203-205 N-FET | 2SK117 | | D503 DIODE | 1SS252 |
| | Q401 N-FET | 2SK246 | | D504 ZENER DIODE | RD5.1ESB |
| | Q402 TRANSISTOR | 2SA1115 | | D505 DIODE | 188252 |
| | Q403 TRANSISTOR | 2SC2603 | | D601 ZENER DIODE | RD8.2FB |
| | Q501 N-FET | 2SK246 | | D701-706 DIODE | 10DF2FD |
| | Q502 TRANSISTOR | 2SA1115 | | D707-710 DIODE | S5566 |
| | Q503 TRANSISTOR | 2SC2603 | | D711, 712 ZENER DIODE | RD13ISB |
| | Q504 TRANSISTOR | DTA124ES | | D713, 714 ZENER DIODE | HZS9A3L |
| | Q505, 506 N-FET | 2SK246 | | D715 ZENER DIODE | HZS6C2L |
| | Q701 N-FET | 2SK246 | | D716 DIODE | 188252 |
| | Q702 TRANSISTOR | 2SB834 | | D717 ZENER DIODE | HZS943L |
| | Q703, 704 TRANSISTOR | 2SC2603 | | D718 DIODE | 155252 |
| | Q705 TRANSISTOR | DTC143ES | | D719 ZENER DIODE | RD8.2ESB |

^{*1;} Specifications for D3-1 to D3-4 are matched. If you change D3-1 to D3-3, at the same time also change FM VCO assembly. Likewise, if you change FM VCO assembly, at the same time change D3-1 to D3-3. In the case of both of the above mentioned, D3-1 to D3-3 parts are mounted on the newly ordered FM VCO assembly; use spare parts.

| Mark | Symbol & Description | Part No. | Mark | Syml | ool & Description | Part No. |
|------|------------------------------|-------------|------|------|-----------------------|--------------|
| | D720 ZENER DIODE | RD2.2ESB | | C21 | CERAMIC CAPACITOR | CCDCH030C50 |
| | D801, 802, 804 DIODE | 1SS252 | | | | |
| | D803 ZENER DIODE | RD6.2ESB2 | | C22 | CAPACITOR(0.022µF) | ACG1022 |
| | THE OA THE DAMESTON | T11100 0 | | | 24 CERAMIC CAPACITOR | CCDCH030C50 |
| | TH101 THERMISTOR | TH103-2 | | C25, | 26 CERAMIC CAPACITOR | CCDCH101J50 |
| | TH102 THERMISTOR | NTH5D104KA | | | CERAMIC CAPACITOR | CKDYX473M25 |
| | TH201 THERMISTOR | TH103-2 | | C28 | CERAMIC CAPACITOR | CKDYF473Z50 |
| REL | AIES | | | | 30 CERAMIC CAPACITOR | CKDYX103M25 |
| | RY1 RELAY | ASR-087 | | | CERAMIC CAPACITOR | CKDYX473M25 |
| 001 | | | | | CERAMIC CAPACITOR | CKDYX103M25 |
| COII | LS, TRANSFORMERS AND FIL | | | | CERAMIC CAPACITOR | CKDYX103M25 |
| | L1 COIL | ATC-244 | | C44 | CERAMIC CAPACITOR | CKDYF103Z50 |
| | L2 AXIAL INDUCTOR | LAU100K | | | | |
| | L3 AXIAL INDUCTOR | LAU2R2M | | | CERAMIC CAPACITOR | CKDYX103M25 |
| | L6, 9 AXIAL INDUCTOR | LAU2R2M | | | 49 CERAMIC CAPACITOR | CKDYX103M25 |
| | L11, 13 AXIAL INDUCTOR | LAU2R2M | | | CERAMIC CAPACITOR | CCDCH150J50 |
| | L7, 8, 10, 12 AXIAL INDUCTOR | | | C52~ | 60 CERAMIC CAPACITOR | CKDYX473M25 |
| | L101 AXIAL INDUCTOR | LAU2R2M | | C61 | CERAMIC CAPACITOR | CKDYX473M25 |
| | L103, 104 AXIAL INDUCTOR | LAU2R2M | | | | |
| | L201 AXIAL INDUCTOR | LAU2R2M | | C101 | CERAMIC CAPACITOR | CKDYF103Z50 |
| | L202 COIL | ATM-028 | | | -104 CERAMIC | CKDYX473M25 |
| | L501 COIL | ATB-073 | | | CAPACITOR | |
| | | | | C106 | CERAMIC CAPACITOR | CKDYF103Z50 |
| | L601 COIL | ATM-026 | | C107 | 108 CERAMIC CAPACITOR | |
| | L602 AXIAL INDUCTOR | LAU100K | | C109 | CAPACITOR(0.01µF) | ACG1021 |
| | L603 AXIAL INDUCTOR | LAU010M | | | | |
| | L604 AXIAL INDUCTOR | LAU100K | | C110 | CERAMIC CAPACITOR | CKDYX473M25 |
| | L801 AXIAL INDUCTOR | LAU220K | | | CAPACITOR(0.01µF) | ACG1021 |
| | | | | | -118 CERAMIC | CKDYX473M25 |
| | T1 COIL | ATC-204 | | | CAPACITOR | 010174701125 |
| | T2 COIL | ATC-257 | | C119 | CAPACITOR(0.01µF) | ACG1021 |
| | T3 IF TRANSFORMER | ATE-066 | | | CERAMIC CAPACITOR | CKDYX473M25 |
| | T4 RF TRANSFORMER | ATC-218 | | | | 010174701120 |
| | T101-103 FM TRANSFORMER | ATE-063 | | C121 | ELECTR. CAPACITOR | CEASO10M50 |
| | | | | | CERAMIC CAPACITOR | CKDYX473M25 |
| | T201 IF TRANSFORMER | ATE-068 | | | 124 CERAMIC CAPACITOR | |
| | T501 COIL | ATB-087 | | C201 | CERAMIC CAPACITOR | ACG-038 |
| | T502 IF TRANSFORMER | ATB1002 | | | ELECTR.CAPACITOR | CEEA102M16 |
| | F101-104 CERAMIC FILTER | ATF1080 | | C203 | CERAMIC CAPACITOR | ACG-038 |
| | F105, 106 CERAMIC FILTER | ATF1079 | | | 205 CERAMIC CAPACITOR | |
| | F501 CERAMIC FILTER | ATF1004 | | | ELECTR.CAPACITOR | CEASO10M50 |
| | F502 CERAMIC FILTER | ATF1077 | | | CERAMIC CAPACITOR | CKDYF223Z50 |
| CADA | CITORO | | | | ELECTR.CAPACITOR | CEASO10M50 |
| CAPA | ACITORS | | | | | |
| | TC1-3 CERAMIC TRIMMER | ACM-018 | | | CERAMIC CAPACITOR | CKDYF223Z50 |
| | TC501, 502 CERAMIC TRIMMER | ACM-019 | | | CERAMIC CAPACITOR | ACG-038 |
| | 64 0 0504440 04040700 | | | | ELECTR. CAPACITOR | CEEA222M16 |
| | C1-3 CERAMIC CAPACITOR | CKDYF103Z50 | | | 213 CERAMIC CAPACITOR | CCDSL181J50 |
| | C4 CERAMIC CAPACITOR | CKDYX103M25 | | C214 | ELECTR. CAPACITOR | CEAS4R7M50 |
| | C5 CERAMIC CAPACITOR | CKDYF103Z50 | | | | |
| | C6, 7 CERAMIC CAPACITOR | CCDCH150J50 | | | | CQSA821J50 |
| | C8, 9 CERAMIC CAPACITOR | CCDSH030C50 | | | | CEEA220M25 |
| | | | | | | CCDCH150J50 |
| | C10 CERAMIC CAPACITOR | CCDCH050C50 | | | | CCDCH330J50 |
| | C11 CERAMIC CAPACITOR | CKDYX473M25 | | C219 | CERAMIC CAPACITOR | ACG-038 |
| | C12 CERAMIC CAPACITOR | CKDYX103M25 | | | | |
| | C13 CERAMIC CAPACITOR | CCDCH030C50 | | | | CEEAO10M50 |
| | C14, 15 CERAMIC CAPACITOR | CCDSH100D50 | | C221 | ELECTR.CAPACITOR | CEASO10M50 |
| | | | | | | ACG-038 |
| | C16 CERAMIC CAPACITOR | CCDSH820J50 | | | | CEEA102M16 |
| | C17 CERAMIC CAPACITOR | CKDYF103Z50 | | | | CEEA222M16 |
| | C18, 19 CERAMIC CAPACITOR | CCDSH100D50 | | | | |
| | C20 CERAMIC CAPACITOR | CKDYX103M25 | | C304 | CERAMIC CAPACITOR | ACG-038 |
| | | | | | | |

| Mark | Symbol & Description | Part No. | Mark | Symbo | of & Description | Part No. |
|------|---|--------------------------|------|-------|---------------------------------------|-----------------------------|
| | C305, 306 ELECTR.CAPACITOR | CEEANPO10M50 | | C511 | CAPACITOR(1000p/50) | ACG1020 |
| | C307 ELECTR.CAPACITOR | CEEANP100M25 | | C512 | CAPACITOR(0.022µF) | ACG1022 |
| | C309 ELECTR.CAPACITOR | CEAS4R7M50 | | C513 | CAPACITOR(0.01µF) | ACG1021 |
| | C310 ELECTR.CAPACITOR | CEAS2R2M50 | | C514 | ELECTR.CAPACITOR | CEAS330M16 |
| | | 05404050450 | | C515 | CAPACITOR(0.01μF) | ACG1021 |
| | C311 ELECTR.CAPACITOR C312 ELECTR.CAPACITOR | CEAS1R5M50 CEAS010M50 | | C516 | CERAMIC CAPACITOR | CKDYF223Z50 |
| | C313 ELECTR.CAPACITOR | CEASR68M50 | | | CAPACITOR(1000p/50) | ACG1020 |
| | C314 ELECTR.CAPACITOR | CEASR47M50 | | | 519 ELECTR.CAPACITOR | CEAS4R7M50 |
| | C314 ELECTR.CAPACITOR | CEASR22M50 | | | MYLOR FILM CAPACITOR | CQMA393J50 |
| | C315 ELECTR.CAPACITOR | | | | MYLOR FILM CAPACITOR | CQMA103J50 |
| | C316 ELECTR.CAPACITOR | CEASR15M50 | | | | |
| | C317 CAPACITOR | CQMXA472J100 | | | ELECTR. CAPACITOR | CEAS330M16 |
| | C318 CAPACITOR | CQMXA152J100 | | | CAPACITOR(0.022µF) | ACG1022 |
| | C319 CAPACITOR | CQMXA822J100 | | | CERAMIC CAPACITOR | CKDYF223Z50 |
| | C320 CAPACITOR | CQMXA222J100 | | , | 526 ELECTR.CAPACITOR ELECTR.CAPACITOR | CEAS010M50 CEAS330M16 |
| | C321 CAPACITOR | CQMXA123J100 | | | | |
| | C322 CAPACITOR | CQMXA392J100 | | C528 | ELECTR.CAPACITOR | CEASOR 1 M50 |
| | C323 CAPACITOR | CQMXA223J100 | | C529 | CAPACITOR(0.022µF) | ACG1022 |
| | C324 CAPACITOR | CQMXA562J100 | | C530 | CERAMIC CAPACITOR | CKDYX103M25 |
| | C325 CAPACITOR | CQMXA333J100 | | | 602 CAPACITOR | CQSXA152J160 |
| | CS25 CALACITOR | ogima ioooo i oo | | | ELECTR.CAPACITOR | CEEA470M25 |
| | C326 CAPACITOR | CQMXA103J100 | | | | |
| | C327 CAPACITOR | CQMXA563J100 | | | CERAMIC CAPACITOR | ACG-038 |
| | C328 CAPACITOR | CQMXA153J100 | | C605 | ELECTR.CAPACITOR | CEEA222M25 |
| | C329 CAPACITOR | CQMXA823J100 | | C606 | ELECTR.CAPACITOR | CEEA102M16 |
| | C330 CAPACITOR | CQMXA273J100 | | C608 | ELECTR.CAPACITOR | CEAS100M25 |
| | | | | C609 | ELECTR.CAPACITOR | CEAS1R5M50 |
| | C331 CAPACITOR | CQMXA104J100 | | | | |
| | C332 CAPACITOR | CQMXA563J100 | | | CERAMIC CAPACITOR | ACG-023 |
| | C333 ELECTR.CAPACITOR | CEEA220M25 | | | ELECTR. CAPACITOR | CEAS6R8M50 |
| | C334, 335 ELECTR. CAPACITOR | CEEANP4R7M25 | | | 613 ELECTR.CAPACITOR | CEAS100M25 |
| | C336, 337 CAPACITOR | CQSA103J50 | | | PL.PROPYTENE CAPACIT ELECTR.CAPACITOR | CQPA682G100 CEAS22OM25 |
| | C338-340 CAPACITOR | CQMXA103J100 | | | | |
| | C341, 342 CAPACITOR | CQSA103J50 | | C616. | 617 ELECTR.CAPACITOR | CEEA10OM25 |
| | C343-345 CAPACITOR | CQMXA103J100 | | | 619 CAPACITOR | CQMXA822J100 |
| | C401 CERAMIC CAPACITOR | CKDYF103Z50 | | | CERAMIC CAPACITOR | CKDYX473M25 |
| | C402 CERAMIC CAPACITOR | CCDCH150J50 | | | ELECTR.CAPACITOR | CEAS47 OM35 |
| | | | | | ELECTR.CAPACITOR | CEAS22 1M63 |
| | C403 CERAMIC CAPACITOR | CCDCH180J50 | | | | 05105541150 |
| | C404 CAPACITOR(0.01µF) | ACG1021 | | | ELECTR.CAPACITOR | CEAS22 1M50 |
| | C405 CERAMIC CAPACITOR | CKDYX473M25 | | | ELECTR.CAPACITOR | CEAS47 1M50 |
| | C406 ELECTR.CAPACITOR | CEAS101M10 | | | ELECTR.CAPACITOR | CEEA33 2M35 |
| | C407 ELECTR.CAPACITOR | CEAS470M25 | | | CERAMIC CAPACITOR ELECTR.CAPACITOR | ACG-038 CEEA101M16 |
| | C408 ELECTR.CAPACITOR | CEANLR47M50 | | | | |
| | C409 CAPACITOR | CQMXA103J100 | | C709 | ELECTR. CAPACITOR | CEEA10 1 M25 |
| | C410 ELECTR. CAPACITOR | CEAS101M35 | | C710 | CERAMIC CAPACITOR | ACG-038 |
| • | C411 ELECTR.CAPACITOR | CEEA2R2M50 | | | ELECTR.CAPACITOR | CEEA10 1 M25 |
| | C412 CERAMIC CAPACITOR | CKDYX473M25 | | | ELECTR.CAPACITOR | CEAS10 1M25 |
| | C412 CENAMIC CAPACITOR | | | | ELECTR.CAPACITOR | CEAS22 2M25 |
| | C501 CERAMIC CAPACITOR | CCDUJ100D50 | | | | |
| | C502 CAPACITOR | CQSA471J50 | | | 715 ELECTR.CAPACITOR | CEASID 1M16 |
| | C503 CERAMIC CAPACITOR | CKDYX223M25 | | | ELECTR. CAPACITOR | CEAS47 1M25 |
| | C504 CERAMIC CAPACITOR | CKDYF103Z50 | | | ELECTR. CAPACITOR | CEAS47 OM25 |
| | C505 CERAMIC CAPACITOR | CCDSL101J50 | | | ELECTR.CAPACITOR ELECTR.CAPACITOR | CEAS1D 1 M16 CEAS22 OM25 |
| | C506 CAPACITOR(0.01µF) | ACG1021 | | 5720 | ELECTION ACTION | JENGE VIILU |
| | C507 CAPACITOR(0.022µF) | ACG1022 | | C721 | ELECTR.CAPACITOR | CEAS10 OM50 |
| | C508 ELECTR.CAPACITOR | CEAS100M50 | | C722 | CERAMIC CAPACITOR | CKDY12 23250 |
| | C509 CERAMIC CAPACITOR | CKDYF103Z50 | | | CERAMIC CAPACITOR | CCDSII 01J50 |
| | C510 CERAMIC CAPACITOR | CKDYX223M25 | | | ELECTR.CAPACITOR | CEAS10 OM25 |
| | 23.0 22.3 | | | | CERAMIC CAPACITOR | CCDS(1 01J50 |
| | | | | | | |



| Mark | Symbol & Description | 1 | Part No. |
|-------|-------------------------------------|------------|------------------------------|
| | C804 CAPACITOR | | ACH1037 |
| | C805 CERAMIC CAP | PACITOR | CKDYF223Z50 |
| | C806 ELECTR.CAPA | | CEAS470M10 |
| | C807, 808 CERAMIC | | |
| | C809 CERAMIC CAR | PACITOR | CKDYF223Z50 |
| | C811 ELECTR.CAP | | CEAS010M50 |
| | C810 CERAMIC CAP | | CKDYX473M25 |
| RESIS | STORS | | OND 1747 OM 25 |
| | VR101 VR | | VRTB6VS474 |
| | VR201 VR | | VRTB6VS103 |
| | VR202 VR(220k) | | ACP1029 |
| | VR203 VR | | VRTB6VS221 |
| | VR204 VR(22k) | | ACP1026 |
| | VR205 VR(10k) VR206, 207 VR(22k | | ACP1025 ACP1026 |
| | VR208 VR | • | |
| | VR301 VR | | VRTB6VS102 VRTB6VS473 |
| | VR501 VR(47k) | | ACP1027 |
| | | | |
| | VR601 VR | | VRTS6VS222 |
| | VR602 VR(22k) | | ACP1026 |
| | R1 CARBONFILM RE | | RD1/4PM□□□J |
| | R7 CARBONFILM RE | | RD1/4PM□□□J |
| | R16 CARBONFILM R | | RD1/4PM□□□J |
| | R117 CARBONFILM | | RD1/4PM□□□J |
| | R131 CARBONFILM | | RD1/4PM□□□J |
| | R137 CARBONFILM | | RD1/4PM□□□J |
| | R143 CARBONFILM I | | RD1/4PM□□□J |
| | R145 CARBONFILM I | RESISTOR F | RD1/4PM□□□J |
| | R206 CARBON FILM | | RDR1/4PM□□□J |
| ļ | R224-227 CARBON | | RDR1/4PM□□□J |
| | RESISTOR | 4 | |
| ı | R229-232 CARBON RESISTOR | | RDR1/4PM□□□J |
| , | R305 CARBON FILM | • | DD1/ADMCCC |
| | R308-331 CARBON | FILM F | RDR1/4PM□□□J RDR1/4PM□□□J |
| F | RESISTOR R418 - 420 CARBON | FILM F | DR1/4PM□□□J |
| F | RESISTOR R510 CARBONFILM F | | D1/4PM□□□J |
| | | | |
| | 1517 CARBON FILM 1601-604 CARBON | FILM R | DR1/4PM□□□J |
| , F | RESISTOR 607-612 CARBON | FILM R | DR1/4PM□□□J |
| F | RESISTOR 614 METALFILM RES | | N1/4PQ5601F |
| F | 616-619 CARBON RESISTOR | | DR1/4PM□□□J |
| R | 701, 702 CARBONFI RESISTOR | LM R | D1/2PM471J |
| | 703 CARBONFILM R | | D1/4PM□□□J |
| R | 709 CARBONFILM R | | |
| | 710 METAL OXIDE R | ESISTOR R | S2LMF2R2J |
| R | 712 CARBONFILM R | ESISTOR R | D1/2PM101J |
| R | 713-716 CARBONF | | D1/4PM□□□J |
| R | RESISTOR B20 RESISTOR ARRA | | A7T223J |
| | | | |

| Mark | Symbol & Description | Part No. |
|------|--------------------------------|-------------|
| | OTHER RESISTORS (22k) | RD1/8PM□□□J |
| отн | ERS | |
| | X401 RESISTOR(7.200MHz) | ASS1005 |
| | X501, 502 CERAMIC RESONATOR | ATF1027 |
| | X801 RESONATOR(4.19MHz) | ASS1018 |
| | PIN JACK (2p) | AKB1039 |
| | TERMINAL 2-P | AKE-060 |
| | SOCKET | AKX1034 |
| | FM VCO ASSEMBLY | AWC1004 |

FM VCO ASSEMBLY (AWC1004)

- This assembly comprises internal parts for tuner assembly.
- There are no service supplied parts for this assembly.

DISPLAY ASSEMBLY (AWZ2933)

| (A | 1122000) |
|--------------------------------|-------------|
| SEMICONDUCTORS | |
| IC901, 902 FL STATIC DRIVER IC | LC7570 |
| Q901 TRANSISTOR | DTC143ES |
| D901-905 DIODE | 1SS252 |
| D906, 907 LED | AEL1072 |
| SWITCHES | |
| S901-924 TACT SWITCH | ASG1029 |
| CAPACITOR | |
| C901 CAPACITOR(0.022µF) | ACG1022 |
| RESISTORS | |
| R902 CARBONFILM RESISTOR | RD1/4PM151J |
| OTHER RESISTORS | RD1/8PM□□□J |
| OTHER | |
| V901 FL TUBE | AAV1095 |
| | |



6. ADJUSTMENTS

PREPARATIONS

- Short TP8 and TP 9 (GND), then remove that short.
- Set TC1 TC3 and VR202 to their mechanical centers.

FM tuner adjustment

- Connect as shown in Fig. 6-1.
 Set the function to FM.

| Step | Adjustment | FM SG (1 | kHz ±75 kH | z dev.) | F-757 reception | Adjustment | | |
|------|---|-----------------------------|---------------|---------------------------|--|-----------------------|---|--|
| No. | Adjustment | Frequency (MHz) | Modulation | Level (dB _µ V) | frequency display | Location | Specification | |
| 1 | Front-end VT ad- | NO II | NPUT SIGNA | 1 | 108MHz NORMAL or SUPER NARROW | L18 | Adjust so that the voltage between TP1 and ground is 21.0 \pm 0.1 V. | |
| 2 | justment | NO II | NPOT SIGNA | | 87.5 MHz NORMAL or SUPER NARROW | - | Confirm that the voltage between TP1 and ground is 7.6 ± 0.5 V. | |
| 3 | Front-end sensitivity- | 90.0 | MONO | Weak input | 90.0 MHz NORMAL | L1, T1, T2 | Adjust for the maximum voltage b tween TP10 and ground. Repeat the | |
| 4 | up adjust- ment | 106.0 | MONO | Weak input | 106.0 MHz NORMAL | TC1 - TC3 | two steps until both specifications are satisfied. (*1) | |
| 5 | IF stage sensitivity- up adjust- ment | 98.0 | MONO | Weak input | 98.0 MHz SUPER NARROW | T3, T101 – T103 | Adjust so that voltage between TP10 and ground becomes maximum. | |
| 6 | Detector VT adjustment | 98.0 | MONO | 60 | 98.0 MHz NORMAL | T201-B | After setting the voltage between TP4 and TP5 to 0 ± 100 mV, check that the modulated signals are output from the output terminal. | |
| 7 | Monaural distortion adjustment (NORMAL) | 98.0 | MONO | 60 | 98.0 MHz NORMAL | T102-A VR208 | Adjust so as to minimize (0.3% or less) distortion. If this cannot be achieved, turn T201-B, voltage between TP4 and TP5 within 0 ± 100 mV, then repeat the above adjustment. | |
| 8 | SUB balance adjustment | 98.0 | MONO | 60 | 98.0 MHz NORMAL | VR203 | Adjust to minimize the output at TP3 (AC voltage) | |
| 9 | VCO adjustment | 108 | OFF | 60 | 108.0 MHz NORMAL or SUPER NARROW | VR601 | Adjust so that the output at TP7 is 38 kHz ± 100 Hz | |
| 10 | Pilot cancel adjustment | 107 (*2) | PILOT ONLY | 60 | 107 MHz NORMAL | VR602 | Adjust so as to minimize the output ter minal AC voltage. | |
| 11 | Stereo distortion adjustment (NORMAL) | 89 (*2) | L-ONLY | 60 | 89 MHz NORMAL | VR204 | Adjust so as to minimize (0.3% or less distortion. If this cannot be achieved, try turning T3, T102 and T103 within ±90°. | |
| 12 | Stereo distortion adjustment (SUPER NARROW) | 89.0 (*2) | L-ONLY | 60 | 89.0 MHz SUPER NARROW | VR205 T101 | Adjust so as to minimize (2.0% or less distortion. If this cannot be achieved, try turning T3, T102 and T103 within ±90° (check step 11 after this). | |
| 13 | Stereo dis- tortion fine adjustment | If readings in within ±45°. | | and 12 so n | ot fully satisfy adj | justment spe | cifications, fine adjust by turning L2C | |
| 14 | Separation | 89 (*2) | R-ONLY | 60 | 89 MHz NORMAL | VR206 | Adjust for the maximum $R \rightarrow L$ separation. | |
| 15 | adjustment | 89 (*2) | L-ONLY | 60 | 89 MHz NORMAL | VR207 | Adjust for the maximum L → R separation. | |

| Step No. | Adjustment | FM SG (1 kHz ±75 kHz dev.) | | | F-757 reception | Adjustment | |
|-------------|--|----------------------------|------------|---------------------------|----------------------------|------------|---|
| | | Frequency (MHz) | Modulation | Level (dB _µ V) | frequency display | Location | Specification |
| 16 | Noise reduction separation adjustment | 89 (*2) | STEREO | 60 | 89 MHz NORMAL MPX NR ON | VR301 | After turning VR301 fully counterclockwise, turn it gradually clockwise until separation becomes 20 dB±1 dB. |
| 17 | S meter | | 14010 | 45 | 89.0 MHz NORMAL | VR202 | Adjust so that voltage between TP2 and ground becomes 5.0±0.05 V. |
| 18 | adjustment | 89 | MONO | 75 | | VR101 | Adjust so that voltage between TP2 and ground becomes 1.6 ± 0.05 V. |
| 19 | Muting level ad- justment | 99 | MONO | 12 | 99.0 MHz NORMAL | VR201 | Adjust so that muting is cancelled (and the signal is delivered through the output terminal) at 12 dB μ . |

^(*1) The adjustments for the HEWZI model end with Step 4.

AM tuner adjustment

- Connect as shown in Fig. 6-2.
- Set TC501 and TC502 to their mechanical centers.
- Steps 1 and 2 should be carried out in the SUPER NARROW or NORMAL mode, and steps 3 to 6 in the SUPER NARROW mode.

| Step No. | | AM SG (400 kHz 30% modulation) | | F-757 recep- tion frequency display | Adjustment | | |
|-------------|--|--------------------------------|------------|---|------------|---|--|
| | Adjustment | Frequency (kHz) Level (dBµV/m) | | | Location | Specification | |
| 1 | Front-end VT | NO INPUT SIGNAL | | 531 kHz | L501 | Adjust so that the voltage between TP1 and ground is 2.0 \pm 0.2 V. | |
| 2 | adjustment | | | 1602 kHz | TC502 | Adjust so that the voltage between TP1 and ground is 16.0±0.2 V. | |
| 3 | Front-end | 603 | Weak input | 603 kHz | T501 | Adjust so as to maximize the voltage be- | |
| 4 | sensitivity-up adjustment | 1395 | Weak input | 1395 kHz | TC501 | tween TP6 and ground. | |
| 5 | Repeat steps 3 and 4 until optimum adjustment is obtained. | | | | | | |
| 6 | S meter adjustment | 999 | 100 | 999 kHz | VR501 | Adjust so that the voltage between TP6 and ground is 5.0±0.1 V. | |

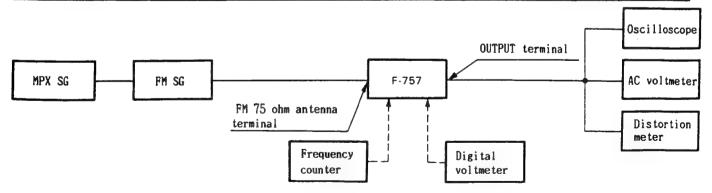


Fig. 6-1 FM Tuner Connection

^(*2) Stereo modulation: Main 1 kHz L + R \pm 68.25 Hz Pilot 19 kHz \pm 6.75 kHz

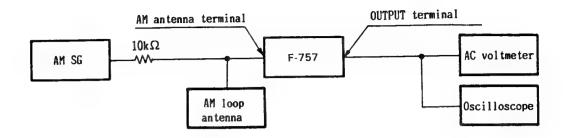


Fig. 6-2 AM Tuner Connection

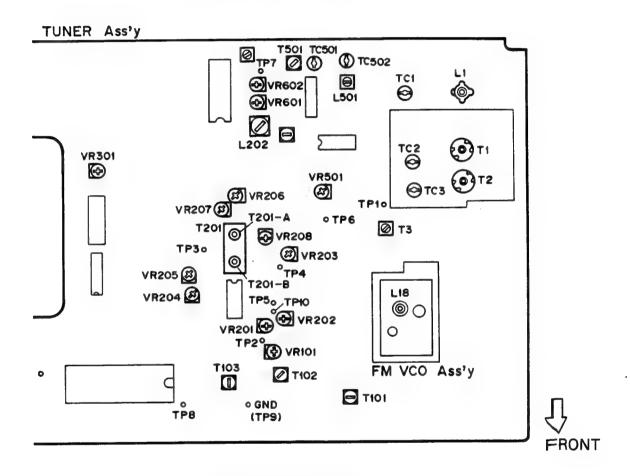


Fig. 6-3 Adjusting point



7. IC INFORMATION

PD5132 Terminal Functions

| No. | Pin Name | I/O | Function | Active |
|-----|----------|-----|--|--------|
| 1 | Vec | _ | + 5V power supply | _ |
| 2 | GND | _ | A/D ground | _ |
| 3 | VREF | 1 | A/D reference voltage input | H/L |
| 4 | D-A | - | NC | |
| 5 | _ | _ | NC | |
| 6 | MONO | 0 | MONO | Н |
| 7 | MUTE | 0 | MUTE | Н |
| 8 | NR | 0 | N.R. | Н |
| 9 | SS | 0 | S.STEREO (SSS) | Н |
| 10 | S ADD | ı | FM S meter addition | H/L |
| 11 | MUTE | 1 | O-VOLT MUTE | H/L |
| 12 | AM SM | 1 | AM S meter | H/L |
| 13 | FM SM | ı | FM S meter | H/L |
| 14 | 9K/10K | 1 | 9/10 kHz recognition input (H: 9 kHz, L: 10 kHz) | H/L |
| 15 | ST | 1 | Stereo data | L |
| 16 | J/E | 1 | Japan/other countries recognition input (H: Japan, L: other countries) | H/L |
| 17 | _ | 0 | NC (GND) | _ |
| 18 | _ | 0 | NC (GND) | _ |
| 19 | - | 0 | NC (GND) | - |
| 20 | _ | 0 | NC (GND) | _ |
| 21 | _ | 0 | NC (GND) | |
| 22 | RF ATT | 0 | RF ATT | н |
| 23 | INT | 1 | AC input | L |
| 24 | REM | ı | Remote control input | L |
| 25 | LED | 0 | Power IND | L |
| 26 | INT | | Not used; 5-V pull-up | |
| 27 | GND | - | Ground | _ |
| 28 | RES | ı | Power supply input | L |
| 29 | ΧI | ı | 4.2 MHz oscillator connection | _ |
| 30 | xo | 0 | 4.2 MHz oscillator connection | _ |
| 31 | Ø | _ | NC | _ |
| 32 | Vss | _ | Ground | _ |
| 33 | - | _ | NC (GND) | _ |
| 34 | K11 | 1 | Key matrix input | L |
| 35 | K12 | ı | Key matrix input | L |
| 36 | K13 | 1 | Key Matrix input | L |
| 37 | K14 | ı | Key matrix input | L |
| 38 | K15 | ı | Key matrix input | L |
| 39 | K16 | ı | Key matrix input | L |
| 40 | K17 | ı | Key matrix input | L |

| No. | Pin Name | 1/0 | Function | Active |
|-----|--------------|-----|----------------------|--------|
| 41 | _ | _ | NC (GND) | - |
| 42 | | _ | NC (GND) | |
| 43 | FM+B | 0 | FM+B | L |
| 44 | NARROW | 0 | Narrow | L |
| 45 | WIDE | 0 | Wide | L |
| 46 | AM+B | 0 | AM+B | L |
| 47 | FLAC | 0 | FL AC | L |
| 48 | SB | 0 | Super base | Н |
| 49 | PMT | 0 | Power mute | Н |
| 50 | PWR | 0 | Power | L |
| 51 | TEST | 1 | Test data | L |
| 52 | ANT A/B | 0 | ANT-A/B change | H/L |
| 53 | K04 | 0 | Key matrix output | L |
| 54 | коз | 0 | Key matrix output | L |
| 55 | K02 | 0 | Key matrix output | L |
| 56 | K01 | 0 | Key matrix output | L |
| 57 | _ | - | NC (GND) | - |
| 58 | PLL | _ | PLL | _ |
| 59 | BLK | 0 | FL blank | L |
| 60 | ST1 | 0 | LC7570 No.1 enable | H |
| 61 | ST2 | 0 | LC7570 No.2 enable | Н |
| 62 | PLL E | 0 | PLL enable | Н |
| 63 | DAT | 0 | Serial transfer data | Н |
| 64 | CLK | 0 | Serial transfer data | Н |

PA0042

| No. | Pin Name | Function |
|-----|----------|-------------------------------------|
| 1 | Vcc | Power supply |
| 2 | CH1 IN | CH1 input |
| 3 | CH2 IN | CH2 input |
| 4 | OUT | Output for control |
| 5 | IN | Input for control |
| 6 | SB | Low-range emphasis |
| 7 | C1 | DC capacitor 1 |
| 8 | F1 | Band-pass filter 1 |
| 9 | C2 | DC capacitor 2 |
| 10 | F2 | Band-pass filter 2 |
| 11 | С3 | DC capacitor 3 |
| 12 | F3 | Band-pass filter 3 |
| 13 | C4 | DC capacitor 4 |
| 14 | F4 | Band-pass filter 4 |
| 15 | C5 | DC capacitor 5 |
| 16 | F5 | Band-pass filter 5 |
| 17 | C6 | DC capacitor 6 |
| 18 | F6 | Band-pass filter 6 |
| 19 | C7 | DC capacitor 7 |
| 20 | F7 | Band-pass filter 7 |
| 21 | C8 | DC capacitor 8 |
| 22 | F8 | Band-pass filter 8 |
| 23 | \$3 | Mode selection 3 |
| 24 | S2 | Mode selection 2 |
| 25 | S1 | Mode selection 1 |
| 26 | REF | Reference voltage input |
| 27 | VREF | Internal reference voltage terminal |
| 28 | CH2 OUT | CH2 output |
| 29 | CH1 OUT | CH1 output |
| 30 | GND | Ground |



8. FOR HE AND HB TYPES

NOTES:

• Parts without part number cannot be supplied.

• Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavail-

• The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

CONTRAST OF MISCELLANEOUS PARTS

F-757/HE and HB types are the same as the F-757/HEWZI type with the exception of the following sections.

| Mark | | Part No. | | | |
|------|--|---|--|--|---------|
| | Symbol & Description | F-757/HEWZI | F-757/HE | F-757/HB | Remarks |
| Å | Tuner assembly AC power cord GND screw Name plate Shield plate | AWZ2904 ADG1010 ABA1047 Non supply Non supply | AWZ2932 ADG1021 — Non supply — | AWZ2932 ADG-063 - Non supply - | |
| | Operating instructions (German, Italian) Operating instructions (English) Operating instructions (English/French/German/Italian /Dutch/Swedish/Spanish/Portuguese) | ARC1179 — — | ARE1140 | - - ARB1224 | |

Tuner Assembly (AWZ2932)

The Tuner assembly (AWZ2932) is the same as the Tuner assembly (AWZ2904) with the exception of the following sections.

| | | Part | Remarks | |
|------|--------------------------|------------------------------|------------------------------|---------|
| Mark | Symbol & Description | AWZ2904 | AWZ2932 | nona ko |
| | L602, L604 L603 | LAU100K LAU010M | - | |
| | C620 | CKDYX473M25 | _ | |
| | R611, R612 R616, R617 | RDR1/4PM103J RDR1/4PM471J | RDR1/4PM102J RDR1/4PM102J | |

9. SPECIFICATIONS

| FM Tuner Section | |
|-------------------------------|--------------------------------------|
| Frequency range | 87.5 MHz to 108 MHz |
| Usable Sensitivity | |
| | Mono: 11.2 dBf, IHF (1.0 μV/75 Ω) |
| 50 dB Quieting Sensitivity | |
| | Mono: 15.9 dBf, IHF (1.7 μV/75 Ω) |
| | Stereo: 36.2 dBf, IHF (17.7 μV/75 Ω) |
| Sensitivity (DIN) | |
| NORMAL | Mono: 0.8 μV/75 Ω |
| | Stereo: 26 μV/75 Ω |
| Signal-to-Noise Ratio | Mono: 94 dB (at 80 dBf) |
| | Stereo: 87 dB (at 80 dBf) |
| Distortion (at 80 dBf) | |
| NORMAL | Mono: 0.03 % (1 kHz) |
| | Stereo: 0.06 % (1 kHz) |
| SUPER NARROW | Mono: 0.2 % (1 kHz) |
| | Stereo: 0.8 % (1 kHz) |
| Capture Ratio | |
| NORMAL | 1.0 dB |
| Alternate Channel Selectivity | |
| NORMAL | 80 dB (400 kHz) |
| SUPER NARROW | 80 dB (300 kHz) |
| Stereo Separation | 60 dB (1 kHz) |
| | 50 dB (20 Hz to 10 kHz) |
| Frequency Response | ±0;2 dB (20 Hz to 15 kHz) |
| Image Response Ratio | 80 dB |
| IF Response Ration | 100 dB |
| AM Suppression Ratio | 70 dB |
| Spurious Response Ratio | 80 dB |
| Subcarrier Product Ratio | 60 dB |
| Muting Threshold | 23.2 dBf (4 μV/75 Ω) |
| Antenna Input | 75 Ω unbalanced |

| AM Tuner Section | |
|--|---|
| Frequency range | 150 μV/m |
| Signal-to-Noise Radio | 50 dB |
| Image Response Ratio | |
| IF Response Ratio | 60 dB |
| Antenna | Loop Antenna |
| Audio Section | |
| Output (Level/Impedance) | |
| FM (100% MOD) | HEWZI type: 1000 mV/0.5 kΩ |
| | HE, HB types: 650 mV/0.9 kΩ |
| AM (30% MOD) | HEWZI type: 220 mV/0.5 kΩ |
| | HE, HB types: 150 mV/0.9 k Ω |
| Miscellaneous | |
| Power requirements | a.c. 240 Volts, 50/60Hz |
| Power Consumption | |
| Dimensions 4 | 20 (W) x 86 (H) x 316 (D) mm |
| 16-1/2 (V | V) \times 3-3/8 (H) \times 12-7/16 (D) in |
| Weight (without package) | 4.1 kg (9 lb 1 oz) |
| Furnished Parts | |
| FM T-type Antenna | |
| AM Loop Antenna | |
| Connecting Cord with Pin Plugs | |
| Operating Instructions | |
| NOTE: | |
| Specifications and design subject to pos | sible modification without |
| due to improvements. | Sibie modification without notice |
| to amprovements. | |